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**DIPTERA OF BEULAH, NEW MEXICO.**

BY C. W. JOHNSON.

***Pachyrrhina erythrophrys*** Will., Kan. Univ., ii., 63.

A male collected by Dr. Skinner has the abdominal segments, second to the seventh inclusive, a bright orange-red, except for a narrow lateral and posterior margin of black. Two males collected by Mr. Henry L. Viereck, June 29, vary somewhat from the typical form and from the one collected by Dr. Skinner in having the second, third and fourth and the basal third of the fifth segment in one, and the fifth and sixth in the other red. Two of the three male specimens in my collection from Bear Creek, Col., collected by Mr. E. J. Oslar, show the same variation; the other being typical.

Mr. Viereck also obtained a female at Beulah, which has not been heretofore described. It closely resembles the male except in the color of the abdomen. The second segment has a broad basal band of red and a narrower one separated by about an equal width of black; segments three to seven inclusive have a sub-basal red band about one third the width of the segment; that on the seventh segment somewhat smaller and interrupted; the bands do not reach the lateral margin. Ovipositor dark brown. Length of ♂ 14 mm., ♀ 19 mm.

***Aspistes analis*** Kirby, Fauna Br. Amer., 311, Tab. v, fig. 8.

This seems to differ from the typical form in having no lateral line of red on the thorax.

***Chilosia skinneri*** n. sp.—♀ Head black; eyes glabrous; sides of the face yellow and covered with a whitish pubescence, leaving a broad, shining, medial stripe; front and vertex shining, the former with a spot of white pubescence on the lower corners bordering the eye; antennæ reddish, the upper edge of the third joint dark brown, aristæ black and bare. Thorax black, the dorsal portion shining and sparsely covered with very fine white hairs; humeri with a whitish bloom; pleuræ with a tuft of white hairs in front of the base of the wing; scutellum with two slight bristles; halteres white. Abdomen shining black, rather slender, with very fine white hairs. Legs, including coxæ, a uniform lighter yellow. Wings hyaline, with a light brownish tinge. Length 5½ mm.

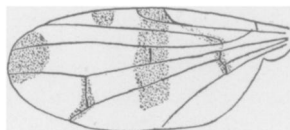
One specimen, Beulah, N. M., August 17.

***Cuterebra similis*** n. s.—Head black, with five more or less triangular pollinose spots on each side contiguous with the eyes, the two occupying the ex-

treme lower angles of the front are fully double the size of those above; those on the face are about equal in size, the upper ones being triangular, the others of nearly a uniform width; the spots on the inferior orbits are much longer, with a very narrow margin extending upwards along the posterior orbits adjoining the eyes; face and front subshining, punctate and rugosely plicate, and sparsely covered with fine black hairs; vertex with a brownish tinge; antennæ black; the plumose aristæ becoming yellowish towards the tip. Thorax a bluish-black, shining, with fine black hairs, pleuræ densely covered with long black hair, with only a small tuft of yellow hair below the base of the wing; scutellum more thickly covered with hair than the dorsal portion of the thorax. Abdomen shining, steel-blue, sides of the first three segments partly yellowish pollinose, leaving numerous isolated or connected spots of the ground color; along the posterior margin of the first and anterior margin of the second it extends well towards the dorsum. Legs black; the femora somewhat brownish, with a white pollinose spot at the base of the posterior femora and on the outer side at the base of all the tibiæ. Wings, alulæ and squamæ, dark brown. Length 21 mm.

One ♀, Beulah, New Mexico. This species nearest related to *C. atrox* Clark, from which it is readily separated by having the last segment entirely steel blue, and not sprinkled with irregular markings of yellowish pollen.

**Zonosema ? dubia** n. sp.—Head yellow, the face and orbital portions somewhat lighter than the front and vertex; antennæ yellow, ocellar tubercle black. Thorax and scutellum reddish brown, bristles black, humeri and pleuræ yellow. Abdomen dark brown. Legs yellow. Wings hyaline, with a slight clouding along the basal transverse veins and towards the stigma; a large cross-band extends from the stigma across the marginal and submarginal cells, on each side of the middle transverse vein, across the discal cell to the middle of the third posterior cell; the clouding along the posterior transverse vein



continues along the fifth longitudinal vein to the margin; a large spot occupies the apical portion, while a much smaller spot is situated in the marginal cell midway between the end of the first and second longitudinal veins. Length 4 mm., wing 4 mm.

Beulah, N. M., August 17.

The following descriptions are contributed by D. W Coquillett:

#### **TROCHILODES**, new genus.

Near *Trichopora*, but the third antennal joint slender and elongated, palpi present, proboscis setaceous, etc. Head nearly square, as long at vibrissæ as at base of antennæ, sides of face bristly, vibrissæ slightly above anterior oral margin, proboscis two and a half times as long as height of head, rigid, very slender, the labella also rigid

and very slender, palpi very short, clavate; antennæ four-fifths as long as face, the third joint narrow, slightly over three times as long as the second, arista pubescent, the penultimate joint slightly longer than broad; eyes bare, cheeks one half as wide as the eye-height, ocellar bristles directed forward; third vein bristly nearly half way to small cross-vein, other veins bare, third vein ending far before the extreme tip of wing, first posterior cell closed, its petiole about one-fourth as long as the hind cross vein, bend of fourth vein nearly rectangular and furnished with a long stump of a vein, hind cross-vein much nearer bend of fourth vein than to the small cross-vein, last section of fifth vein less than one third as long as the preceding section.

Type, the following species:

**Trochilodes skinneri** n. sp.—Black; the frontal vittæ dark brown; first two joints of antennæ and base of the third yellowish brown; middle and lower part of sides of face and the cheeks, also the palpi, yellow; front one and one-half times as wide as either eye; two pairs of orbital bristles; frontal bristles in single rows, scarcely descending below base of antennæ; sides of face each bearing about two irregular rows of stout bristles extending from the front nearly to the vibrissæ; facial ridges bristly on the lowest fourth; arista thickened on its basal three-fifths; body opaque, gray pruinose; the fourth abdominal segment very thinly pruinose, somewhat polished; mesonotum with a pair of interrupted subdorsal black vittæ, three pairs of postsutural dorso-central bristles, three sterno-pleurals; abdomen on first three segments with olivaceous, changeable spots, the last three segments with discal and marginal bristles; middle tibiæ bearing three stout bristles on the outer anterior side, the same on the outer-posterior side and one below middle of inner side; hind tibiæ not ciliate; pulvilli elongated; wings hyaline; calypteres white. Length 9 mm.

One specimen, Beulah, New Mexico. August 17th. Type received for naming from C. W. Johnson, of Philadelphia, to whom, by request, it has been returned.

**Pegomyia nitidula** n. sp.—*Male*.—Black; the halteres yellow; eyes approximate; frontal vitta at narrowest point slightly wider than the lowest ocellus; front and epistoma not prominent; antennæ slightly shorter than the face, the third joint a trifle longer than the second; arista with a short pubescence; sides of face and lower corners of front whitish pruinose; proboscis moderately robust; mesonotum opaque, grayish black pruinose; the region of the humeri light gray; abdomen depressed, polished, not grayish pruinose; hypopygium large; venter without processes and long bristles; front tibiæ bearing a bristle on the inner-posterior side; middle tibiæ with one on the outer-anterior, two on the outer-posterior and two on the inner-posterior side; middle femora bristly on the basal two-thirds of the under side; hind femora bristly on the apical three-fourths of the under side; hind tibiæ bearing a small bristle on the

inner-anterior side, three large ones on the outer-anterior, two very small ones on the inner-posterior side and four large ones on the outer-posterior side, besides those at the tip; wings grayish hyaline; the base to beyond the humeral cross-vein brown; spines of costa small; calypteres yellowish white. Length 4.5 mm.

*Female*.—Præocellar bristles present; front tibiæ bearing a bristle on the outer-anterior and one on the inner-posterior side, middle tibiæ with two on the inner-anterior, three on the outer-anterior, two on the inner-posterior, and two on the outer-posterior side; spines of costa rather large, otherwise as in the male, except the sexual characters.

Beulah, New Mexico (Coquillett). A specimen of each sex collected August 17.

## LIST OF DIPTERA.

### ABBREVIATIONS.

The first letter after a species denotes the determiner, and the next letter or letters the collector.

Coq.—Coquillett, D. W.

J.—Johnson, C. W.

C.—Cockerell, T. D. A.

V.—Viereck, H. L.

A.—Aldrich, J. M.

S.—Skinner, H.

M. D. C.—Cockerell, M. D.

W. P. C.—Cockerell, W. P.

Ch.—Chapman.

### TIPULIDÆ.

- Dicranomyia halterata* O. S. Coq., C.  
*defuncta* O. S. Coq., C.  
*Limnobia triocellata* O. S. Coq., C.  
*Erioptera septentrionalis* O. S. Coq., C.  
*Molophilus colonus* Berg. Coq., C.  
*hirtipennis* O. S. Coq., C.  
*Eriocera spinosa* O. S. Coq., C.  
*Tipula fallax* Loew. Coq., C.  
*bicornis* Forbes. Coq., C.  
*Pachyrrhina ferruginea* Fabr. J., V.  
*erythrophrys* Will. J., S. V.

### CULICIDÆ.

- Culex impiger* Walk. Coq., C.  
*reptans* Meig. Coq., C.

### PSYCHODIDÆ.

- Pericoma bipunctata* Kinc. Coq., C.

### CHIRONOMIDÆ.

- Chironomus brunneus* Walk. J., V.

### MYCETOPHILIDÆ.

- Dynatosoma fulvida* Coq. Coq., C.  
*Lasiosoma fasciata* Say. Coq., C.  
*Mycetophila ichneumonea* Say. Coq., C.  
*Sciara nigra* Wied. Coq., C.  
*Dilophus stigmaterus* Say. J., S.  
*Aspistes analis* Kirby. J., S.

### LEPTIDÆ.

- Symphoromyia fulvipes* Bigot. Coq., C.

### STRATIOMYIDÆ.

- Sargus decorus* Say. Coq., C.  
*viridis* Say. Coq., C.  
*Stratiomyia barbata* Loew. Coq., C.

### TABANIDÆ.

- Chrysops noctifer* O. S. J., V.  
*Therioplectes rhombicus* O. S. J., V.

### BOMBYLIDÆ.

- Spogostylum œdipus* Fabr. Coq., C.  
*Anthrax catulina* Coq. Coq., C.

*Anthrax alternata* Say. J., S.  
*hypomelas* Macq. Coq., C.  
*fulviana* Say. J., S.  
*sinuosa* Wied. J., S.  
*Anastoechus barbatus* O. S. J., S.  
*Sparnopolius coloradensis* Grt. Coq., S.

## ASILIDÆ.

*Cyrtopogon leucozonus* Loew. J., S.  
*montanus* Loew. Coq., C.  
*Dasyllis posticata* Say. Coq., C.  
*Laphria xanthippe* Will. Coq., C.  
*anthrax* Will. J., Ch.  
*Mallophora clausicella* Macq. J., S.  
*Erax varipes* Will. J., C.  
*Tolmerus callidus* Will. J., C. S.

## EMPIDÆ.

*Hilara atra* Loew. Coq., C.

## DOLICHOPODIDÆ.

*Dolichopus plumipes* Scop. A., S.  
*coloradensis* Aldr. Coq., C.  
*Psilopus melanopus* Loew. Coq., J.; C. S.

## SYRPHIDÆ.

*Pipiza pistioides* Will. Coq., C.  
*modestus* Loew. J., V.  
*Chilosia tristis* Loew. Coq., C.  
*skinneri* Johnson n. sp.  
*Hammerschmidtia ferruginea* Fall.  
 Coq., M. D. C.  
*Melanostoma mellinum* Linn. Coq.,  
 M. D. C.  
*Syrphus arcuatus* Fall. Coq.  
*pullulus* Snow. J., S.  
*ribesii* Linn.\* Coq., C.  
*genualis* Will. J., C.  
*Chamæsyrrhus willistoni* Snow. Coq., C.  
*Catabomba pyrastris* Linn. Coq., C.  
*Sphærophoria cylindrica* Say. J., S.  
*Sericomyia militaris* Walk. J., V.  
*Eristalis tenax* Linn. J., S.  
*latifrons* Loew. Coq.; C.  
*Xylota flavitibia* Bigot. J., S.  
*pigra* Fabr. Coq., C.  
*notha* Will. Coq., C.

## CONOPIDÆ.

*Physocephala burgessi* Will. Coq., J.,  
 C., S.  
*texana* Will. Coq., C.  
*Zodion fulvifrons* Say. J., S.  
*splendens* Jæn. Coq., C.  
*Oncomyia baroni* Will. J., S.

## CÆSTRIDÆ.

*Cuterebra americana* Fabr. Coq., S.  
*similis* Johnson. n. sp.  
*lepivora* Coq. Coq., C.

## TACHINIDÆ.

*Cistogaster immaculata* Macq. Coq., C.  
*Myiophasia ænea* Wied. Coq., C.  
*Thryptocera atripes* Coq. Coq.; C. S.  
*Hypostena tortricis* Coq. C.  
*Epigrammyia occidentalis* Coq. Coq., S.  
*Clausicella setigera* Thom. Coq., C.  
*Siphona geniculata* Dr. Greer. Coq., C.  
*Chætogædia crebra* v.d. Wulp. Coq., C.  
*Frontina archippivora* Will. Coq., C.  
*Trochilodes skinneri* Coq., n. gen. et sp.  
*Lasioneura johnsoni* Coq. Coq., C.  
*Linnæmyia picta* Meig. Coq., C.  
*Panzeria radicum* Fabr. Coq., C.  
*Cuphocera californiensis* Macq. Coq., C.  
*Gonia capitata* Dij. Coq., C.  
*Peleteria robusta* Wied. J., C.  
*tessellata* var. *neglecta* Town. C.  
*Archytas lateralis* Macq. Coq., M. D. C.  
*analis* Fabr. J., C.  
*Echinomyia algens* Wied. Coq., C.  
*decisa* Walk. Coq., C.  
*hystricosa* Will. Coq., C.  
*Epalpus bicolor* Will. Coq., C.  
*Parepalpus flavida* Coq. Coq., C.  
*Dejeania hystricosa* Will. Coq., C.  
*vexatrix* O. S. C.

## DEXIDÆ.

*Myocera tibialis* Desv. Coq., S.  
*rava* v. d. Wulp. Coq., C.  
*Prosenia curvistrois* Bigot. Coq., C.

## MUSCIDÆ.

*Calliphora vomitoria* Linn. J., S.  
*Phormia regina* Meig. J., C.  
*Morellia micans* Macq. Coq., C.

## ANTHOMYIDÆ.

- Phorbia platura* Meig. Coq., C.  
*Pegomyia nitidula* Coq. n. sp. S.  
     *cilicrura* Rond. J., S.  
*Schœnomyza dorsalis* Loew. Coq.; C. V.

## SCATOPHAGIDÆ.

- Scatophaga suilla* Fabr. Coq., C.

## HELOMYZIDÆ.

- Anorostoma marginata* Loew. J., S.  
*Helomyza tincta* Walk. Coq., C.  
     *zetterstedtii* Loew. Coq., C.

## SCIOMYZIDÆ.

- Neuroctena fumida* Coq. Coq., C.  
*Tetanocera canadensis* Macq. Coq., C.  
     *plumosa* Loew. Coq., C.

## SAPROMYZIDÆ.

- Pachycerina verticalis* Loew. Coq.; C.S.

## ORTALIDÆ.

- Tritoxa cuneata* Loew. Coq., C.

## TRYPETIDÆ.

- Zonosena flavonotata* Macq. Coq., C.  
     *dubia* Johnson n. sp. S.

- Straussia longipennis* Wied. Coq., C.  
*Trypeta occidentalis* Snow. Coq., C.  
*Tephritis genalis* Thoms. Coq., C.  
     *finalis* Loew. J., S.  
*Paracantha culta* Wied. Coq.; C. V.  
*Euaresta abstersa* Loew. J., S.  
*Urellia mevarna* Walk. J., S.

## SEPSIDÆ.

- Sepsis violacea* Meig. J.; C. S.

## OSCINIDÆ.

- Chlorops assimilis* Macq. J., S.  
*Meromyza americana* Fitch. Coq., C.  
*Gaurax epphippium* Zett? Coq., S.  
*Siphonella lævigata* Fall. J., S.

## AGROMYZIDÆ.

- Agromyza coronata* Loew. J., S.  
     *æneiventris* Fall. J., S.  
     *setosa* Loew. Coq., C.  
*Leucopsis nigricornis* Egger. Coq., W.  
     P. C.  
     (with aphides on *Senecio*.)

## BORBORIDÆ.

- Aptilotus politus* Will. Coq., C.